TEJUS
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PRECAST SLAB (CORE) TEST REPORT

Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	Sri.Pramodh M/s Karthik Enterprises
Name of Work	:	Improvements to Road,Drain and Footpath in Devinagar Main Road and Cross Roads in Ward No.8, Kodigehalli
No.of Sample Tested	:	03
Date of Testing	:	20/11/2017
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20} . 250mm Thick

Sl.No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	100.00	180.00	3.440	2433.30	1.80	0.960	157.10	20.00	21.60	20.74	25.92
2	100.00	180.00	3.450	2440.38	1.80	0.960	157.30	20.03	21.63	20.77	25.96
3	100.00	180.00	3.460	2447.45	1.80	0.960	157.50	20.05	21.66	20.79	25.99

Note

The report shall not be reproduced, except in full, without the written approval of the laboratory.
The results indicated above are based on the tests carried out on the samples received in the laboratory.
Any Query regarding the report must be reported reported within 15 days from the date of testing.

Department Engineer (AE/JE)

Consultant's Representative

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS CONSULTANTS
No 318, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079, O : +91 80 23287532, tejusconsultants@gmail.com

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KERB STONE (CORE) TEST REPORT

	:	Bruhat Bangalore Mahanagara Palike
	:	Sri.Pramodh M/s Karthik Enterprises
fork	:	Improvements to Road,Drain and Footpath in Devinagar Main Road and Cross Roads in Ward No.8, Kodigehalli
ple Tested	:	03
sting	:	20/11/2017
l Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Concrete	:	M_{15}

Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
50.00	85.00	0.371	2222.93	1.70	0.960	28.30	14.41	15.57	14.94	18.68
50.00	85.00	0.368	2204.95	1.70	0.960	28.30	14.41	15.57	14.94	18.68
50.00	85.00	0.364	2180.98	1.70	0.960	28.50	14.51	15.68	15.05	18.81

ort shall not be reproduced, except in full, without the written approval of the laboratory.
lts indicated above are based on the tests carried out on the samples received in the laboratory.
ery regarding the report must be reported reported within 90 days from the date of testing.

artment Engineer (AE/JE)

Consultant's Representative

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
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ject	Improvements to Road,Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli
ent	BRUHAT BANGALORE MAHANAGARA PALIKE
nsultant	M/s Tejus Consultants
ntractor	Sri.Pramodh M/s Karthik Enterprises

AGGREGATE IMPACT VALUE
(IS: 2386 Part - 4)

pposed Use	WMM	Date of Sampling	01/12/2017
mple cation	At plant	Date of Testing	01/12/2017
oad Name	LKR Nagar Main Road		

l. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	350.00	355.00	330.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	267.00	276.00	268.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	83.00	79.00	62.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	23.71	22.25	18.79	
5	Average Aggregate impact value	(%)	21.59			Max - 30 %

Remarks : Satisfactory / Not Satisfactory

Department Engineer (AE/JE) 15.08

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Consultant's Representative

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

TEJUS
CONSULTANTS

	Improvements to Road,Drain and Footpath in Lottegollahalli main road and cross roads in ward No.8 Kodigehalli
	BRUHAT BANGALORE MAHANAGARA PALIKE
ltant	M/s Tejus Consultants
actor	Sri.Pramodh M/s Karthik Enterprises

AGGREGATE IMPACT VALUE
(IS: 2386 Part - 4)

eed Use	WMM	Date of Sampling	04/12/2017
de Location	At plant	Date of Testing	04/12/2017
Name	Lottegollahalli Main Road		

No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	350.00	340.00	350.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	269.00	264.00	268.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	81.00	76.00	82.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	23.14	22.35	23.43	
5	Average Aggregate impact value	(%)	22.97			Max - 30 %

Remarks : Satisfactory / Not Satisfactory

Department Engineer (AE/JE)

15/12/17

TEJUS CONSULTANTS
Consultant's Representative

Yelahanka Zone, B.B.M.P.,
Bangalore.

Yelahanka Zone, B.B
Bangalore.

TEJUS
CONSULTANTS

Project	Improvements to Road,Drain and Footpath in Lottegollahalli main road and cross roads in ward No.8 Kodigehalli
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	M/s Tejus Consultants
Contractor	Sri.Pramodh M/s Karthik Enterprises

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	WMM	Proposed Use	WMM
Sample Location	At plant	Date of Sampling	04/12/2017
Road Name	Lottegollahalli main road	Date of Testing	04/12/2017

Size of aggregate		Flakiness Index		Elongation Index	
Passing through IS sieve, mm	Retained on IS sieve, mm	Total wt. of aggregate retained on sieves (A) gms.	Wt. of aggregate passing from Flakiness gauge (B) gms	Wt. of aggregate retained on Flakiness gauge (C) gms	Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	658	76	582	80
16.0	12.5	1132	135	997	120
12.5	10.0	612	92	520	58
10.0	6.3	510	47	463	60
Total		2912	350	2562	318

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	12.02
Elongation Index(%):	12.41
Combined FI+EL (%)	24.43

Department Engineer (AE/JE)

TEJUS CONSULTANTS

Consultant's Representative

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P..
Bangalore.

TEJUS
CONSULTANTS

ne of Work	:	Improvements to Road,Drain and Footpath in Lottegollahalli main road and cross roads in ward No.8 Kodigehalli
nt	:	BRUHAT BANGALORE MAHANAGARA PALIKE
sultant	:	M/s Tejus Consultants
ntractor	:	Sri.Pramodh M/s Karthik Enterprises
te of Testing	:	04/12/2017
pe of Mix	:	WMM
mple I/D	:	WMM 2

GRADATION FOR WMM
(As per MORT&H 400-11)

Sample Location:	At plant	Date of Sampling:	04/12/2017
Road Name	Lottegollahalli main road	Date of testing:	04/12/2017
Type of material & Purpose:	WMM	Oven Dry Wt.(gms):	10000.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
53	0	0	0.00	100.00	100.00
45	176	176	1.76	98.24	95-100
22.4	2852	3028	30.28	69.72	60-80
11.2	2572	5600	56.00	44.00	40-60
4.75	1541.0	7141	71.41	28.59	25-40
2.36	978.0	8119	81.19	18.81	15-30
0.6	951.0	9070	90.70	9.30	8.0-22.0
0.075	753.0	9823	98.23	1.77	0-8
Pan	177.0				
Total	10000.0				

Department Engineer (AE/JE)

15.12.17

TEJUS CONSULTANTS
Consultant's Representative

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

TEJUS
CONSULTANTS

Project	Improvements to Road,Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	M/s Tejus Consultants
Contractor	Sri.Pramodh M/s Karthik Enterprises

Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28)

Location: LKR Nagara Main Road	Date:	04/12/2017
Representing chainage	80 and 110	
Layer no. or level	WMM	
Depth of hole	150mm	

Field density:	1	2
Wt. of wet material from hole (Ww) gms.	6260	6250
Wt. of sand+cylinder before pouring (w1) gms.	14000	14000
Wt. of sand+cylinder after pouring (w2) gms.	9723	9724
Wt. of sand in cone (w3) gms.	850	850
Wt. of sand in hole (w4)=(w1-w2-w3) gms.	3427	3426
Bulk density of sand (γs)gm/cc	1.32	1.32
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*(γs))gm/cc	2.41	2.41
Moisture meter reading(moisture content)	8.61	8.62
Result		
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	2.22	2.22
MDD	2.25	2.25
OMC	8.65%	8.65%
% compaction obtained	98.67	98.53
% compaction required	98%	98%

Department Engineer (AE/JE)

TEJUS CONSULTANTS

Consultant's Representative

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

TEJUS CONSULTANTS
No.56, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079. O: +91 80 23287532, tejusconsultants@gmail.com

TEJUS CONSULTANTS

oject	Improvements to Road,Drain and Footpath in Lottegollahalli main road and cross roads in ward No.8 Kodigehalli
ient	BRUHAT BANGALORE MAHANAGARA PALIKE
onsultant	M/s Tejus Consultants
ontractor	Sri.Pramodh M/s Karthik Enterprises

Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28)

ocation: Lottegollahalli main road	Date:	06/12/2017
epresenting chainage	80 and 120	
ayer no. or level	WMM	
Depth of hole	150mm	

Field density:	1	2
Wt. of wet material from hole (Ww) gms.	6235	6250
Wt. of sand+cylinder before pouring (w1) gms.	14000	14000
Wt. of sand+cylinder after pouring (w2) gms.	9748	9740
Wt. of sand in cone (w3) gms.	848	848
Wt. of sand in hole (w4)=(w1-w2-w3) gms.	3404	3412
Bulk density of sand (γs)gm/cc	1.32	1.32
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*(γs))gm/cc	2.42	2.42
Moisture meter reading(moisture content)	8.58	8.58
Result		
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	2.23	2.23
MDD	2.27	2.27
OMC	8.60%	8.60%
% compaction obtained	98.09	98.10
% compaction required	98%	98%

Department Engineer (AE/JE)

Consultant's Representative

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
CONSULTANTS

	Improvements to Road,Drain and Footpath in Devinagara main road and cross roads in ward No.8 Kodigehalli
	BRUHAT BANGALORE MAHANAGARA PALIKE
	M/s Tejus Consultants
	Sri.Pramodh M/s Karthik Enterprises

AGGREGATE IMPACT VALUE
(IS: 2386 Part - 4)

Use	WMM	Date of Sampling	07/12/2017
cation	At plant	Date of Testing	07/12/2017
e	Devinagar Main Road		

Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	350.00	355.00	345.00	
Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	268.00	274.00	269.00	
Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	82.00	81.00	76.00	
Aggregate Impact Value (%)	(Wc/Wa)*100	23.43	22.82	22.03	
Average Aggregate impact value	(%)	22.76			Max - 30 %

rks :

Satisfactory / Not Satisfactory

rtment Engineer (AE/JE)

Consultant's Representative

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

TEJUS CONSULTANTS

Project	Improvements to Road,Drain and Footpath in Devinagara main road and cross roads in ward No.8 Kodigehalli
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	M/s Tejus Consultants
Contractor	Sri.Pramodh M/s Karthik Enterprises

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	WMM	Proposed Use	WMM
Sample Location	At plant	Date of Sampling	07/12/17
Road Name	Devinagara main road	Date of Testing	07/12/17

Size of aggregate		Flakiness Index		Elongation Index	
Passing through IS sieve, mm	Retained on IS sieve, mm	Total wt. of aggregate retained on sieves (A) gms.	Wt. of aggregate passing from Flakiness gauge (B) gms	Wt. of aggregate retained on Flakiness gauge (C) gms	Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	671	73	598	73
16.0	12.5	1140	138	1002	132
12.5	10.0	621	86	535	70
10.0	6.3	510	38	472	36
Total		2942	335	2607	311

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	11.39
Elongation Index(%):	11.93
Combined FI+EL (%)	23.32

Department Engineer (AE/JE)

TEJUS CONSULTANTS
Consultant's Representative

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.
Bangalore.

TEJUS
CONSULTANTS

Name of Work	:	Improvements to Road,Drain and Footpath in Devinagara main road and cross roads in ward No.8 Kodigehalli
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	Sri.Pramodh M/s Karthik Enterprises
Date of Testing	:	07/12/2017
Type of Mix	:	WMM
Sample I/D	:	WMM 3

GRADATION FOR WMM
(As per MORT&H 400-11)

Sample Location:	At plant	Date of Sampling:	07/12/2017
Road Name	Devinagara main road	Date of testing:	07/12/2017
Type of material & Purpose:	WMM	Oven Dry Wt.(gms):	10000.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
53	0	0	0.00	100.00	100.00
45	165	165	1.65	98.35	95-100
22.4	2336	2501	25.01	74.99	60-80
11.2	2672	5173	51.73	48.27	40-60
4.75	1388.0	6561	65.61	34.39	25-40
2.36	1021.0	7582	75.82	24.18	15-30
0.6	645.0	8227	82.27	17.73	8.0-22.0
0.075	1631.0	9858	98.58	1.42	0-8
Pan	142.0				
Total	10000.0				

Department Engineer (AE/JE)

TEJUS CONSULTANTS
Consultant's Representative

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

TEJUS CONSULTANTS
No. 59, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079. O : +91 80 23287532, tejusconsultants@gmail.com

TEJUS CONSULTANTS

Project	Improvements to Road,Drain and Footpath in Devinagara main road and cross roads in ward No.8 Kodigehalli
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	M/s Tejus Consultants
Contractor	Sri.Pramodh M/s Karthik Enterprises

Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28)

Location: Devinagara main road	Date:	11/12/2017
Representing chainage	50 and 120	
Layer no. or level	WMM	
Depth of hole	150mm	

Field density:	1	2
Wt. of wet material from hole (Ww) gms.	6230	6250
Wt. of sand+cylinder before pouring (w1) gms.	14000	14000
Wt. of sand+cylinder after pouring (w2) gms.	9735	9730
Wt. of sand in cone (w3) gms.	848	848
Wt. of sand in hole (w4)=(w1-w2-w3) gms.	3417	3422
Bulk density of sand (γs)gm/cc	1.32	1.32
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*(γs))gm/cc	2.41	2.41
Moisture meter reading(moisture content)	8.60	8.58
Result		
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	2.22	2.22
MDD	2.26	2.26
OMC	8.65%	8.65%
% compaction obtained	98.06	98.25
% compaction required	98%	98%

Department Engineer (AE/JE)

Consultant's Representative

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore

Yelahanka Zone, B.
Bangalore.